Magnetic Spinning Circle

Kit contains:

- 1 magnet
- 1 mini binder clip
- 1 washer
- 1 metal circle
- 1 piece of pipe cleaner
- stickers

You will need: assorted metal things.

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INSTRUCTIONS

Step 1. Decorate the metal circle with stickers.

Step 2. Chomp the magnet with the binder clip.

Step 3. Thread the pipe cleaner through the metal loops (flipped up).

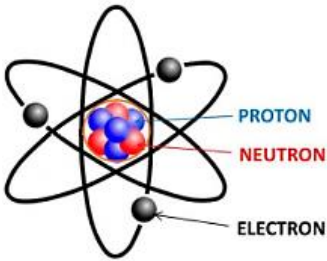
Step 4. Twist the pipe cleaner into a ring around a finger on your non-dominant hand. The magnet should be on your palm side. (Example: If you are right-handed, attach to a left finger.)

TIME TO EXPERIMENT!

1. Try to chain magnet → washer → circle.
2. Try to chain magnet → circle → washer.
3. Starting with the magnet → washer → circle chain, flick the circle gently to make it spin.
4. Can you make the metal piece attached to the magnet spin? Why or why not?
5. Collect some other small metal pieces around your home (screws, paper clips, nails, etc.). Which ones are magnetic?
6. How long can you make your magnet chain?

MAGNETISM!

Magnetism is an invisible force or field caused by the unique properties of certain materials. In most objects, electrons spin in different, random directions. This causes them to cancel each other out over time. However, magnets are different. In magnets, the molecules are uniquely arranged so that their electrons spin in the same direction. This arrangement of atoms creates two poles in a magnet, a North-seeking pole and a South-seeking pole.



The magnetic force in a magnet flows from the North pole to the South pole. This creates a **magnetic field** around a magnet.